

Abstract of the Disclosure

Integrated circuits are stabilized by monitoring changes that affect circuit operation and by compensating for those changes using power supply
5 adjustments. Changes in operating temperature and threshold voltage changes may be measured. Differential measurements may be made in which threshold voltages measured in continuously-biased monitoring circuits are compared to threshold voltages measured in
10 intermittently-biased monitoring circuits. Temperature changes may be monitored using a temperature monitoring circuit based on an adjustable current source and a diode. Monitoring and compensation circuitry on the integrated circuits may use analog-to-digital and
15 digital-to-analog converters controlled by a control unit to make temperature and threshold voltage measurements and corresponding compensating changes in power supply voltages.